Abstract

The invention provides an optimum method for utilizing a desulfurizing agent for liquid hydrocarbons which can efficiently remove sulfur content from kerosene without performing addition of hydrogen to a low sulfur concentration and which has a prolonged lifetime.

The invention provides a desulfurization method which includes removing sulfur content from kerosene by use of a metallic desulfurizing agent without performing addition of hydrogen, characterized in that the method employs desulfurization conditions satisfying the following formula (1):

$$1.06 \times P_{ope}^{0.44} < T_{ope}/T_{50} < 1.78 \times P_{ope}^{0.22} \quad \cdots (1)$$

(wherein T_{ope} is operation temperature (°C); P_{ope} is operation pressure (MPa); and T_{50} is a temperature per 50 percent recovered as determined by "test method for distillation at atmospheric pressure" stipulated in JIS K2254 "Petroleum products – Determination of distillation characteristics").